

CUSTOMER NO.: 24498
 Ser. No. 10/511,834
 Office Action dated: November 18, 2005
 Response dated: May 18, 2006

PATENT
 PD020033

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Circuit arrangement having a mains connection, a mains switch with a first switching contact and a second switching contact, a demagnetization coil and a switch-mode power supply comprising supply, comprising:

a driver ~~circuit~~, circuit;

a transformer with a primary winding and an auxiliary winding ~~for providing~~, said auxiliary winding providing a supply voltage for ~~the driver circuit~~, said driver circuit;

a switching transistor coupled in series with ~~the primary~~ said primary winding, ~~the driver~~, and said driver circuit producing a control voltage ~~for the switching transistor~~, for said switching transistor;

a ~~rectifier means~~ bridge rectifier for rectifying a mains voltage, voltage provided by said mains connection; and

an energy-storage capacitor coupled between ~~the rectifier and the~~ said bridge rectifier and said primary winding, winding;

~~the circuit~~ said circuit arrangement comprising further a power factor coil for power factor correction, which is arranged between ~~the mains~~ said mains connection and ~~said energy-storage capacitor~~ bridge rectifier, wherein

~~the first~~ said first switching contact is arranged between ~~the mains~~ said mains connection ~~and the~~ and said demagnetization coil for ~~switching the~~ switching said demagnetization coil on and off, and

~~the second~~ said second switching contact is arranged between ~~the auxiliary~~ said auxiliary winding and ~~the driver~~ said driver circuit for switching off ~~the supply~~ said supply voltage, ~~or is arranged for switching off a control voltage for the driver circuit in order to switch off the switching transistor~~.

2. (currently amended) The circuit arrangement as claimed in claim 1, wherein a diode and a second capacitor are coupled to a connection of ~~the auxiliary~~ said auxiliary winding in order to rectify and smooth said supply voltage, and ~~in that the~~

PATENT
PD020033CUSTOMER NO.: 24498
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Office Action dated: November 18, 2005
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~~second~~ wherein said second switching contact is arranged between ~~the second~~ said second capacitor and ~~the driver~~ said driver circuit.

3. (canceled).

4. (currently amended) The circuit arrangement as claimed in claim 1, ~~wherein the circuit arrangement comprises~~ further comprising a mains filter, a first parallel capacitor coupled between ~~the mains~~ said mains filter and ~~the mains~~ said mains connection and a second parallel capacitor coupled between ~~the mains~~ said mains filter and ~~the rectifier means, that the~~ said bridge rectifier, wherein said demagnetization coil is arranged in parallel to ~~the second~~ said second parallel capacitor and in parallel to ~~the rectifier means~~ said bridge rectifier, and ~~that the~~ wherein two connections of ~~the first~~ said first switching contact are connected in series between ~~the second~~ said second parallel capacitor and ~~the demagnetization~~ said demagnetization coil for switching ~~the demagnetization~~ said demagnetization coil on and off.

5. (currently amended) The circuit arrangement as claimed in claim 4, wherein a posistor is arranged in series ~~between the~~ between said first switching contact ~~and the~~ and said demagnetization coil.

6. (canceled).

7. (currently amended) ~~Appliance, having a circuit arrangement in accordance with claim 1~~ The circuit arrangement according to Claim 1, wherein said circuit arrangement is included in an appliance.

8. (currently amended) ~~The appliance as claimed in claim~~ The circuit arrangement according to Claim 7, wherein the appliance said appliance comprises a picture tube, ~~on which the~~ and wherein said demagnetization coil is mounted on said picture tube.

PATENT
PD020033

CUSTOMER NO.: 24498
Ser. No. 10/511,834
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Response dated: May 18, 2006

9. (new) Circuit arrangement having a mains connection, a mains switch with a first and a second switching contact, a demagnetization coil, and a switch-mode power supply comprising:
 - a driver circuit;
 - a transformer with a primary winding and an auxiliary winding, said auxiliary winding providing a supply voltage for said driver circuit;
 - a switching transistor coupled in series with said primary winding and said driver circuit producing a control voltage for said switching transistor;
 - a bridge rectifier for rectifying a mains voltage provided by said mains connection; and
 - an energy-storage capacitor coupled between said bridge rectifier and said primary winding,
 - said circuit arrangement comprising further a power factor coil for power factor correction, which is arranged between said mains connection and said bridge rectifier, wherein
 - said first switching contact is arranged between said mains connection and said demagnetization coil for switching said demagnetization coil on and off, and
 - said second switching contact is arranged for switching off a control voltage for said driver circuit in order to switch off said switching transistor.
10. (new) The circuit arrangement as claimed in claim 7, wherein a diode and a second capacitor are coupled to a connection of said auxiliary winding in order to rectify and smooth said supply voltage, and wherein said second switching contact is arranged between said second capacitor and said driver circuit.
11. (new) The circuit arrangement as claimed in claim 7, comprising further a mains filter, a first parallel capacitor coupled between said mains filter and said mains connection and a second parallel capacitor coupled between said mains filter and said bridge rectifier, wherein said demagnetization coil is arranged in parallel to said second parallel capacitor and in parallel to said bridge rectifier, and wherein two connections of said first switching contact are connected in series between said second parallel capacitor and said demagnetization coil for switching said demagnetization coil on and off.
12. (new) The circuit arrangement as claimed in claim 9, wherein a posistor is arranged in series between said first switching contact and said demagnetization coil.

CUSTOMER NO.: 24498

Ser. No. 10/511,834

Office Action dated: November 18, 2005

Response dated: May 18, 2006

**PATENT
PD020033**

13. (new) The circuit arrangement according to Claim 7, wherein said circuit arrangement is included in an appliance.

14. (new) The circuit arrangement according to Claim 7, wherein said appliance comprises a picture tube, and wherein said demagnetization coil is mounted on said picture tube.